



ILLINOIS STATEWIDE ITS STRATEGIC PLAN AND ARCHITECTURE TECHNICAL ASSISTANCE PROJECT

Stakeholder Survey

Intelligent Transportation Systems (ITS) are one of the tools that transportation agencies, organizations, and operators can use to improve the operations, management, and performance of the transportation network in Illinois. As a key transportation stakeholder we are seeking to gather information from you concerning:

- the functions or activities that your agency performs
- the systems that your agency currently operates or plans to operate
- the information shared or exchanged between your agency and other agencies

Please complete and return the attached survey to provide key information on transportation needs, issues, and services in your organization and your region, as well as your views on the current and anticipated use of transportation technologies to address these needs. Your answers to the survey questions should be based on your knowledge and experience to minimize the need for additional digging and research. The survey is designed to take 30 minutes or less to complete. Your input is critical to effectively guide and support the successful development and implementation of ITS initiatives in your region and throughout Illinois.

This survey is organized into topical areas: Top Issues/Services, Your Organization/Agency, Traveler Information, Roadway Operations, Transit Operations, Incident/Emergency Management, and Commercial Vehicle Operations. Please complete the sections that you feel apply to your organization or agency. The information you provide will help to develop a framework (blueprint) for organizing, planning, designing, deploying, and operating ITS projects, systems, strategies, and services. The framework will guide the future direction of integrated transportation systems. This survey will also help the Illinois Department of Transportation (IDOT) update earlier inventories of ITS facilities and provide critical data for the development of the Plan.

IDOT has contracted with the consulting team of Edwards and Kelcey (EK), Trichord, URS, and Wilson Consulting to develop the Statewide ITS Strategic Plan and Architecture for Illinois. If you have any questions, please feel free to contact either Scott Lee, IDOT Project Manager, at (847) 705-4800, or Matt Letourneau, EK Project Engineer, at (312) 251-3000. For more information about this study, please refer to the project website: www.ilits.org.

Please fax this completed questionnaire to Matt Letourneau of Edwards and Kelcey at (312) 251-3015 no later than:

Friday, July 16, 2004

Please note that space has been provided at the end of the Your Organization/Agency questions for you to provide additional information and/or comments.

Thank you in advance for your time and cooperation in this important initiative.



Illinois Department of Transportation



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Before completing this survey, please provide the following information:

Name: _____

Title: _____

Organization: _____

Address: _____

Phone: _____

Fax: _____

E-mail: _____

Definitions

Traffic Incident/Emergency Management

A system that enables responders to quickly identify crashes/breakdowns and ensure agency coordination so that the closest available and most appropriate emergency unit can be dispatched to minimize clean-up and medical response time.

Freeway Management

Freeway management systems provide information to motorists, detect problems for increased capacity and flow, and minimize congestion from crashes.

Arterial (Non-Freeway) Traffic Management

Systems that monitor traffic flow on arterial street and non-freeway rural roadway systems, provide information to the traveling public, and implement signal timing plans in order to optimize the progression of traffic, including railroad crossing coordination.

Public Transportation Management

Systems that allow new ways of electronic monitoring and management of transit fleets and parking facilities through advanced locating devices and public information systems.

Commercial Vehicle Operations

Systems that support administrative functions for commercial vehicle operations, including credentialing, taxing, and enforcement of safety regulations, as well as oversize/overweight and HAZMAT permitting and detection.

Transportation Security

Systems that detect, respond to, and recover from threats against the surface transportation system and infrastructure.



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Top Issues/Services

1. Please identify the top issues related to the local transportation network by ranking the items below from 1 to 12 with 1 being the most critical issue.

- | | |
|---|--|
| ___ Unfamiliar Users | ___ Commercial Vehicle Operations |
| ___ Road Construction | ___ Special Event Traffic Management, i.e. Tourism |
| ___ Emergency Inter-Agency Coordination | ___ Emergency Response Time |
| ___ Transit Facilities | ___ Road Condition Info – Traveler |
| ___ Weather Condition Info | ___ Urban Congestion/Signal Operations |
| ___ Transportation Security | |
| ___ Other _____ | |

2. Please identify the top services for mitigating the most critical transportation issues identified above. Rank the items below from 1 to 10 with 1 being the most critical service.

- | | |
|--|--------------------------------------|
| ___ HAZMAT Incident Response | ___ Incident Management |
| ___ Emergency Vehicle Management | ___ Pre-trip Traveler Information |
| ___ Highway-Rail Intersection Enhancements | ___ Commercial Vehicle Operations |
| ___ Traffic Control Enhancements (e.g., Communications, Pre-emption) | ___ En-Route Driver Information |
| ___ Other _____ | ___ Public Transportation Operations |





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Your Organization/Agency

1. What are the primary goals and objectives of your organization or agency as it relates to the transportation network?

2. Is your organization or agency currently carrying out any major projects, including but not limited to operations center construction, highway improvements, vehicle procurement, communications infrastructure, etc.

YES NO

If YES, please describe the project(s) and/or provide project name(s) and available documentation source(s).

3. Within the next ten years, is your organization or agency planning or has funding been programmed for any major projects, including but not limited to operations center construction, highway improvements, vehicle procurement, communications infrastructure, etc.

YES NO

If YES, please describe the project(s) and/or provide project name(s) and available documentation source(s).



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4. Does your organization or agency exchange voice or data information (such as by telephone or fax) with any of the following types of organizations/agencies? Please circle all that apply and list the appropriate organizations/agencies by name.

Incident/Emergency _____

Freeway _____

Public Transportation _____

Arterial or Non-Freeway _____

Commercial Vehicle _____

Traveler Information _____

5. What specific types of information do you share with these organizations/agencies?

Incident/Emergency _____

Freeway _____

Public Transportation _____

Arterial or Non-Freeway _____

Commercial Vehicle _____

Traveler Information _____





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6. Please list any current partnerships, agreements, or memoranda of understanding that your organization or agency has in place with any other organizations/agencies (e.g., maintenance of traffic signals, data sharing, media agreements).

7. Does your organization or agency have (or plan to have) a vehicle fleet?

YES NO PLANNED

If NO, skip to question #11.

If YES:

How many vehicles? _____

What is the primary function? _____

Secondary function? _____

8. Does your organization or agency provide (or plan to provide) maintenance of the vehicles in your fleet?

YES NO PLANNED

9. Does your organization or agency use (or plan to use) vehicle maintenance scheduling software to manage both routine and corrective maintenance activities on vehicles?

YES NO PLANNED

10. Does your organization or agency use (or plan to use) an Automated Vehicle Location (AVL) system?

YES NO PLANNED

11. Does your organization or agency operate or maintain (or plan to operate or maintain) a dispatch facility?

YES NO



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If NO, skip to question # 13.

If YES, what are the hours of operation? _____

If YES, how do your dispatchers communicate with the vehicle operators?

12. Does your organization or agency currently perform (or plan to perform) Computer Aided Dispatch (CAD) of your vehicles?

YES

NO

PLANNED

13. Does your organization or agency use Geographic Information Systems (GIS)?

YES

NO

If YES, what types of information are GIS used for?

14. What type of radio communications system, if any, does your organization or agency currently operate?

15. Who in your organization or agency oversees your communications systems?

16. Based on your understanding of technology in transportation, what opportunities do you see for the application of ITS technologies in your area?





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Additional Information / Comments





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Traveler Information

1. Does your organization or agency receive (or plan to receive) information from the National Weather Service?

YES NO PLANNED

2. Does your organization or agency receive (or plan to receive) surface transportation specific weather information from a private weather information service?

YES NO PLANNED

3. Does your organization or agency use (or plan to use) any of the following real-time traffic data collection technologies?

VEHICLE DETECTORS

VIDEO DETECTION

VEHICLE PROBE READERS

SURVEILLANCE CAMERAS

ROAD WEATHER INFORMATION SYSTEMS

OVERHEIGHT VEHICLE DETECTION

OTHER _____

4. Does your organization or agency process and store (or plan to process and store) collected traffic data for use in operations or for dissemination to the traveling public?

YES NO PLANNED



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5. Does your organization or agency disseminate (or plan to disseminate) traffic, transit, or weather condition information in any of the following ways?

TV/RADIO

DYNAMIC MESSAGE SIGNS

INTERNET

PAGERS or PDAs

KIOSKS

E-MAIL

HIGHWAY ADVISORY RADIO

ROUTE GUIDANCE

511 OR OTHER TELEPHONE

PERSONALIZED TRAFFIC INFO

OTHER _____

6. Do you feel that your organization or agency collects transportation information that could be included in a statewide traveler information outlet, like an Internet website or 511 Traveler Info?

YES

NO

If YES, please describe the information below.





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Roadway Operations

1. Does your organization or agency use (or plan to use) environmental data or information to detect environmental hazards such as icy road conditions, high winds, or dense fog?

YES NO PLANNED

If YES, at how many locations? _____

2. Does your organization or agency detect and verify (or plan to detect and verify) traffic incidents?

YES NO PLANNED

3. Does your organization or agency control (or plan to control) any signalized intersections?

YES NO PLANNED

If NO, skip to question # 5.

If YES, how many intersections? _____

If YES, do any of your signalized intersections have:

SIGNAL PRE-EMPTION

CLOSED LOOP OPERATION

TRANSIT PRIORITY

ADAPTIVE TRAFFIC CONTROL

WIRELESS COMMUNICATIONS

OTHER _____

4. Does your organization or agency have (or plan to have) any signalized intersections that are interconnected with active railroad crossing devices?

YES NO PLANNED

If YES, how many intersections? _____



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5. Does your organization or agency monitor highway-rail intersections with any of the following technologies?

VEHICLE DETECTORS

VIDEO DETECTION

TRAIN ARRIVAL PREDICTION

ELECTRONIC TRAFFIC VIOLATOR DEVICES

OTHER _____

6. Does your organization or agency operate (or plan to add) lane control devices (e.g., changeable overhead directional arrows) on the freeways?

YES

NO

PLANNED

7. Does your organization or agency manage (or plan to manage) automatic or remotely controlled gates or barriers that control access to roadway segments including ramps and traffic lanes?

YES

NO

PLANNED

8. Does your organization or agency provide or support (or plan to provide or support) on-going operations and maintenance activities?

YES

NO

PLANNED

9. Does your organization or agency perform (or plan to perform) winter maintenance activities?

YES

NO

PLANNED

10. Does your organization or agency have (or plan to have) any roadway deicing systems?

YES

NO

PLANNED



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11. Does your organization or agency manage roadway work zone activities?

YES

NO

If YES, please identify below the devices or systems currently deployed or planned for work zone monitoring.

DYNAMIC MESSAGE SIGNS

CLOSED CIRCUIT TELEVISION

VEHICLE SPEED MONITORING

WORK ZONE INTRUSIONS

OTHER _____





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Transit Operations

1. What types of transit services does your organization or agency operate?

FIXED ROUTE

DEMAND RESPONSIVE (PARATRANSIT)

RAIL

OTHER _____

2. Does your organization or agency provide (or plan to provide) dynamic transit information at stops or parking facilities?

YES

NO

PLANNED

3. Does your organization or agency have (or plan to have) security monitoring systems on-board transit vehicles?

YES

NO

PLANNED

4. Does your organization or agency perform security monitoring (or plan to monitor) non-public areas (e.g. transit yards or other infrastructure)?

YES

NO

PLANNED

5. Does your organization or agency provide transit trip planning in any of the following ways?

INTERNET

E-MAIL

KIOSKS

OTHER _____

6. Does your organization or agency have (or plan to have) an Electronic Fare Payment System (smart card, swipe card, credit card, etc.)?

YES

NO

PLANNED





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Incident/Emergency Management

1. Does your organization or agency use (or plan to use) mobile data terminals (MDT)?

YES NO PLANNED

2. Does your organization or agency use (or plan to use) emergency vehicle pre-emption at any signalized intersections?

YES NO PLANNED

3. Does your organization or agency participate (or plan to participate) in any kind of incident management program or coordination activities (such as major incident debriefing, tabletop exercises, etc.)?

YES NO PLANNED

4. Does your organization or agency monitor (or plan to monitor) the transportation infrastructure (e.g., bridges, tunnels, and management centers) for potential threats using sensors and surveillance equipment?

YES NO PLANNED

5. Does your organization or agency monitor (or plan to monitor) public travel-related areas such as transit stations, transit stops, rest stops, and kiosk locations for potential threats using sensors and surveillance equipment?

YES NO PLANNED

6. Does your organization or agency use (or plan to use) driver and traveler information systems to alert the public in emergency situations such as child abductions, severe weather events, civil emergencies, and other situations that pose a threat to life and property?

YES NO PLANNED



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7. Does your organization or agency monitor (or plan to monitor) and detect potential, looming, and actual disasters including natural disasters and technological and man-made disasters (hazardous materials incidents, nuclear, chemical, biological, and radiological attacks) and notify all responding agencies of detected emergencies?

YES NO PLANNED

8. Does your organization or agency support (or plan to support) disaster response and recovery, including coordination of emergency response plans and resources, damage assessment, service restoration, and transition back to normal operation?

YES NO PLANNED

9. Does your organization or agency support (or plan to support) evacuation of the general public from a disaster area and manage subsequent reentry to the disaster area using transportation resources?

YES NO PLANNED

10. Does your organization or agency provide (or plan to provide) disaster-related traveler information to the general public, regarding evacuation and reentry information and other information concerning the operation and availability of the transportation system during a disaster?

YES NO PLANNED





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Commercial Vehicle Operations

1. Does your organization or agency perform (or plan to perform) electronic credential administrative services for commercial vehicles?

YES NO PLANNED

2. Does your organization or agency participate (or plan to participate) in roadside commercial vehicle inspection?

YES NO PLANNED

If NO, no further responses are required in this section.

3. Does your organization or agency perform (or plan to perform) electronic screening?

YES NO PLANNED

4. Does your organization or agency exchange (or plan to exchange) safety and/or security information?

YES NO PLANNED

5. Does your organization or agency participate (or plan to participate) in high speed weigh-in-motion services?

YES NO PLANNED

6. Does your organization or agency participate (or plan to participate) in HAZMAT detection?

YES NO PLANNED